Aurora Pre-Run Protocol

106-0017-AA-D

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Introduction

This protocol is for removing contaminating DNA in the Aurora disposable cartridges, sometimes present in reagents used in their manufacturing. The protocol is recommended for any sample that is expected to have low levels of DNA, and is run prior to loading your sample and running a subsequent Aurora protocol of your choice. Since the pre-run concentrates any contaminating DNA molecules within the cartridge, it ensures that contaminating DNA is not co-purified with the DNA from the sample of interest in the subsequent Aurora protocol.

Safety guidelines

Wear gloves during all stages of the protocol. Avoid skin contact with all reagents. Appropriate precautions should be taken if hazardous samples are used with the cartridges.

Running the Aurora protocol

1. Follow the directions in the **Aurora Disposable Cartridge Handling Manual** (106-0010) to prepare the Aurora. Save the buffer removed from each buffer chamber but do not remove the buffer from the sample chamber.
2. Select and run the **106-0017-AA-D Aurora Pre-Run Protocol.SP** file.
3. When the protocol is complete, carefully peel off the tape on the extraction well and remove the buffer. Rinse the extraction well with 100 µl fresh buffer and discard.
4. Refill the extraction well with 60 µl fresh buffer (saved in Step 1) and reseal the well with a new piece of tape. Remove the buffer from the sample chamber, and refill the chamber with the intended sample. Continue by selecting an Aurora protocol most appropriate for the sample.

Troubleshooting

Please see the Aurora user manual for more information about troubleshooting machine faults.

Ordering and support

For support for Aurora protocols or cartridges, or to order additional cartridges, please contact support@borealgenomics.com. This protocol uses cartridge part number **210-0001-CA-D**.

SCODA conditions

These conditions are pre-programmed in the **106-0017-AA-D Aurora Pre-Run Protocol.SP** file that accompanies this protocol guide and are intended for reference purposes. Note that electric current or power values that slightly exceed these expected values may not indicate a problem.

Cartridge

Sample volume	5 ml
Expected sample conductivity	NA

Pre-Run

SCODA field strength	70 V/cm
SCODA cycle period	4 s
Duration	1.5 hr

Expected current	30-45 mA
Expected power	9-11 W